

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS ☒ WATER SANDS LOCATION INSPECTED SUB REPORT/abd.

DATE FILED JANUARY 21, 1997

LAND: FEE &amp; PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN #

DRILLING APPROVED: FEBRUARY 4, 1997

14-20-H62-3513

SPUDED IN: 1-14-97

COMPLETED: 7-21-97 (PDW) PUT TO PRODUCING

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED:

FIELD:

ANTELOPE CREEK

UNIT:

COUNTY:

DUCHESNE

WELL NO.

UTE TRIBAL 18-11

API NO. 43-013-31782

LOCATION

2235 FSL FT. FROM (N) (S) LINE. 1920 FWL

FT. FROM (E) (W) LINE NE SW

1/4 - 1/4 SEC. 18

TWP

RGE

SEC

OPERATOR

TWP

RGE

SEC

OPERATOR

5S

3W

18

PETROGLYPH OPERATING

**Petroglyph Operating Co., Inc.**  
**P.O. Box 1839**  
**Hutchinson, KS 67504-1839**

January 13, 1997

Utah Division of Oil, Gas, & Mining  
Attn: Mr. Frank Matthews, Petroleum Engineer  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL  
UTE TRIBAL #18-11  
NE/SW SEC. 18, T5S, R3W  
DUCHESNE COUNTY, UTAH  
LEASE NO. BIA 14-20-H62-3513  
UTE TRIBAL LANDS

Dear Mr. Matthews:

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone # (801) 789-4120  
Fax # (801) 789-1420

Sincerely,



Ed Trotter  
Agent

**Petroglyph Operating Co., Inc.**

Attachments

/EHT/dmt

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

2235' FSL &amp; 1920' FWL NE/SW

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

18.7 MILES SOUTHWEST OF MYTON, UTAH

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT. 1920'  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6008.7'

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6193.7' GRADED GROUND

## 22. APPROX. DATE WORK WILL START\*

JANUARY, 1997

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl <sub>2</sub>
7 7/8	5 1/2	15.5#	6008.7'	+ 1/4 #/sx celloflake.
				50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG + ) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah  
Ute Tribe, Fort Duchesne, Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

AGENT FOR PETROGLYPH

DATE

1-14-97

(This space for Federal or State office use)

PERMIT NO.

43-013-31282

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

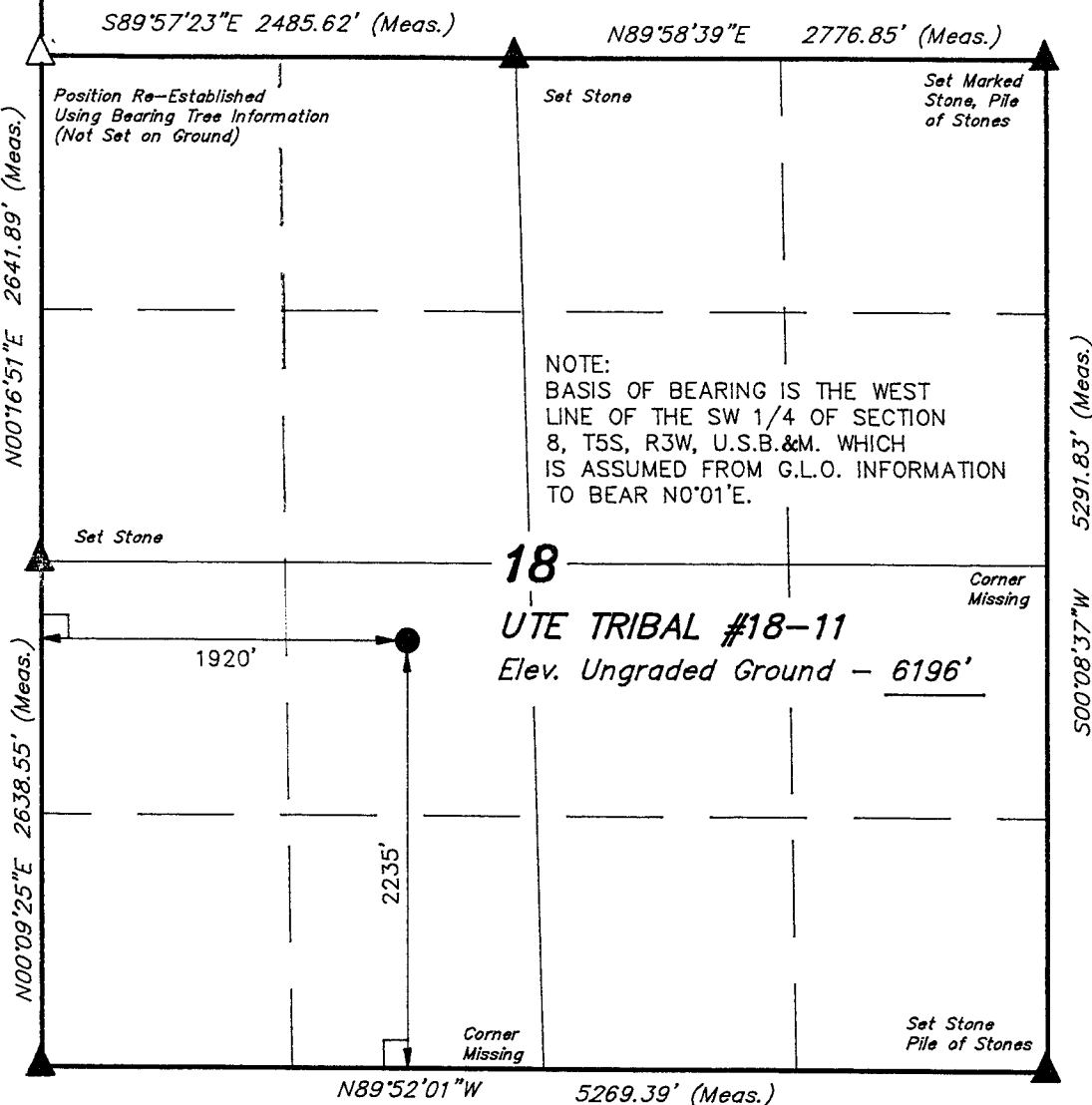
2/4/97

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

R  
4  
W

**T5S, R3W, U.S.B.&M.**



**LEGEND:**

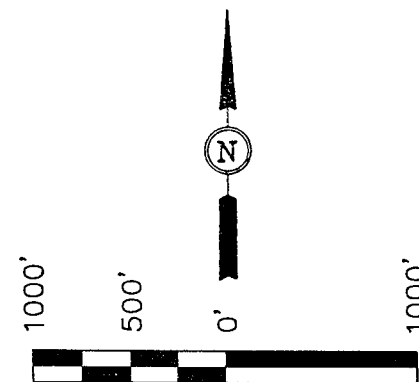
- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

**PETROGLYPH OPERATING CO., INC.**

Well Location, UTE TRIBAL #18-11, located as shown in NE 1/4 SW 1/4 of Section 18, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 18, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5943 FEET.



SCALE

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. H. [Signature]*

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
**85 SOUTH 200 EAST - VERNAL, UTAH 84078**  
(801) 789-1017

SCALE 1" = 1000'		DATE SURVEYED: 10-3-96	DATE DRAWN: 10-11-96
PARTY B.B.    B.H.    C.B.T.		REFERENCES G.L.O. PLAT	
WEATHER WARM		FILE PETROGLYPH OPERATING CO., INC.	

State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801

January 31, 1997

RE: Application for Exception Well Location  
Proposed Ute Tribal #18-11  
Township 5 South, Range 3 West  
Section 18: NE/4 SW/4  
Duchesne County, Utah

Gentlemen;

Petroglyph Operating Company, Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the Ute Tribal #18-11 a 6009' Green River test, at a location 2235' FSL & 1920' FWL, NE/4 SW/4, Section 18, Township 5 South Range 3 West, Duchesne County, Utah.

The aforementioned footage is not a location at which a well could be drilled in compliance with the spacing order of this lease, which established 40 acre drilling units.

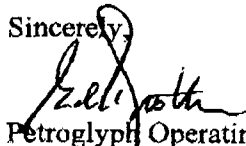
Enclosed is a topographic map which depicts the surface contour in the area of the subject location. Petroglyph believes the proposed exceptionally spaced location to be the preferred location from a construction standpoint. Also this location is preferred by the Bureau of Indian Affairs Resource Department and the Ute Indian Tribe, Energy and Minerals Department who regulate activities on this land.

Petroglyph Operating Company Inc. holds 100% of the operating rights underlying the subject drilling unit as well as drilling units to the north, south, east and west.

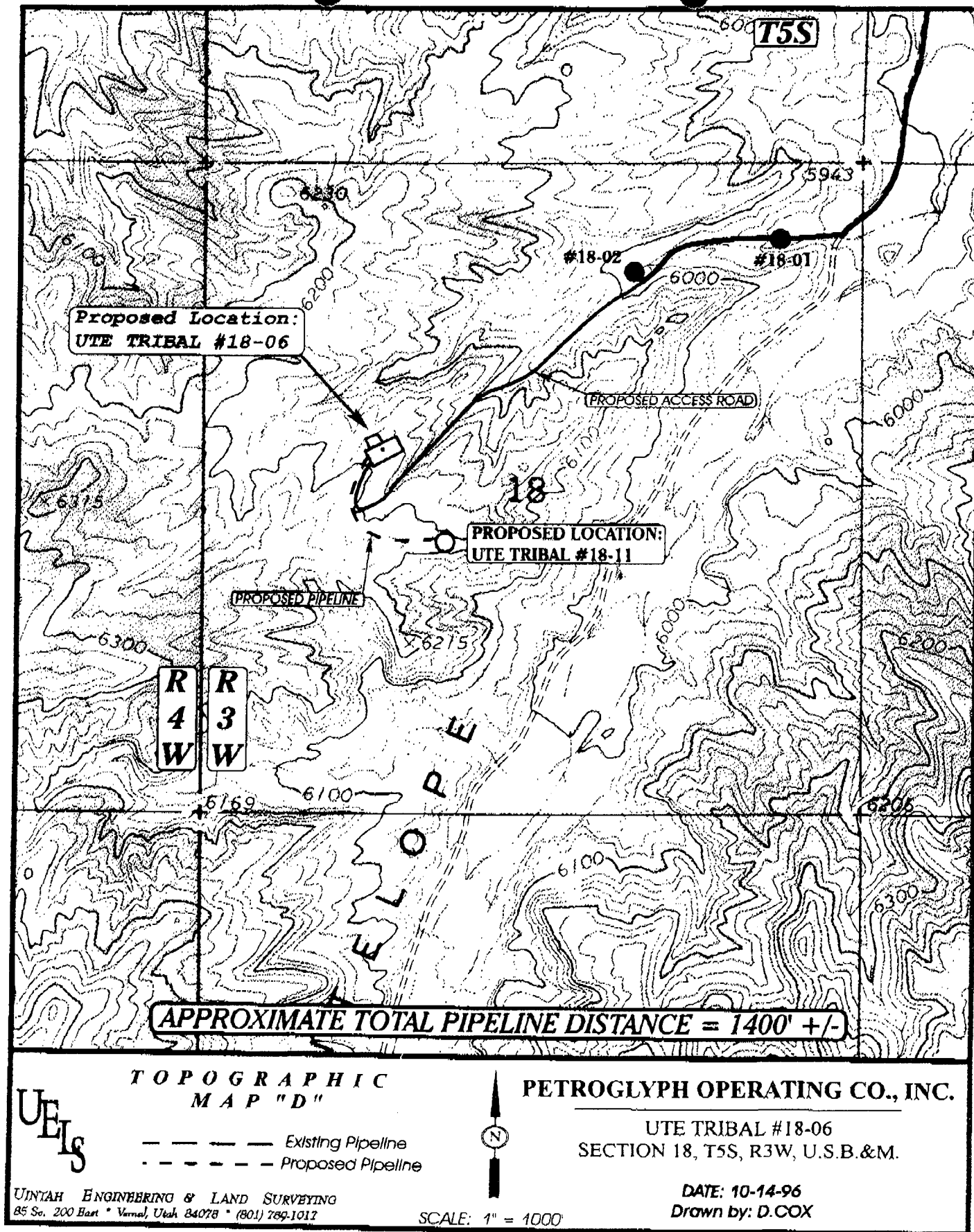
Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant this application for the exceptional well location at its earliest opportunity.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 801-789-4120.

Sincerely,



Petroglyph Operating Company Inc.  
Ed Trotter, Agent



EIGHT POINT PLAN

UTE TRIBAL #18-11  
NE/SW SEC. 18, T5S R3W  
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2803.7	3400
'X' marker	4375.7	1828
Douglas Creek	4515.7	1688
"B" Limestone	4898.7	1305
B/Castle Peak Limestone	5463.7	740
Basal Carbonate Limestone	5898.7	305
Total Depth	6008.7	195

Anticipated BHP                      2600 psi

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4515.7	1688
Oil/Gas	B/Castle Peak	5463.7	740
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

						<u>MINIMUM SAFETY FACTOR</u>		
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6008.7'	6008.7'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #18-11  
NE/SW SEC. 18, T5S R3W  
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'  
250' - 4000'  
4000' - TD  
TD

MUD TYPE

Air  
Air/Mist & Aerated Water  
Air/3% KCL water or KCL substitute  
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed  
DST': None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.



EIGHT POINT PLAN

UTE TRIBAL #18-11  
NE/SW SEC. 18, T5S R3W  
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

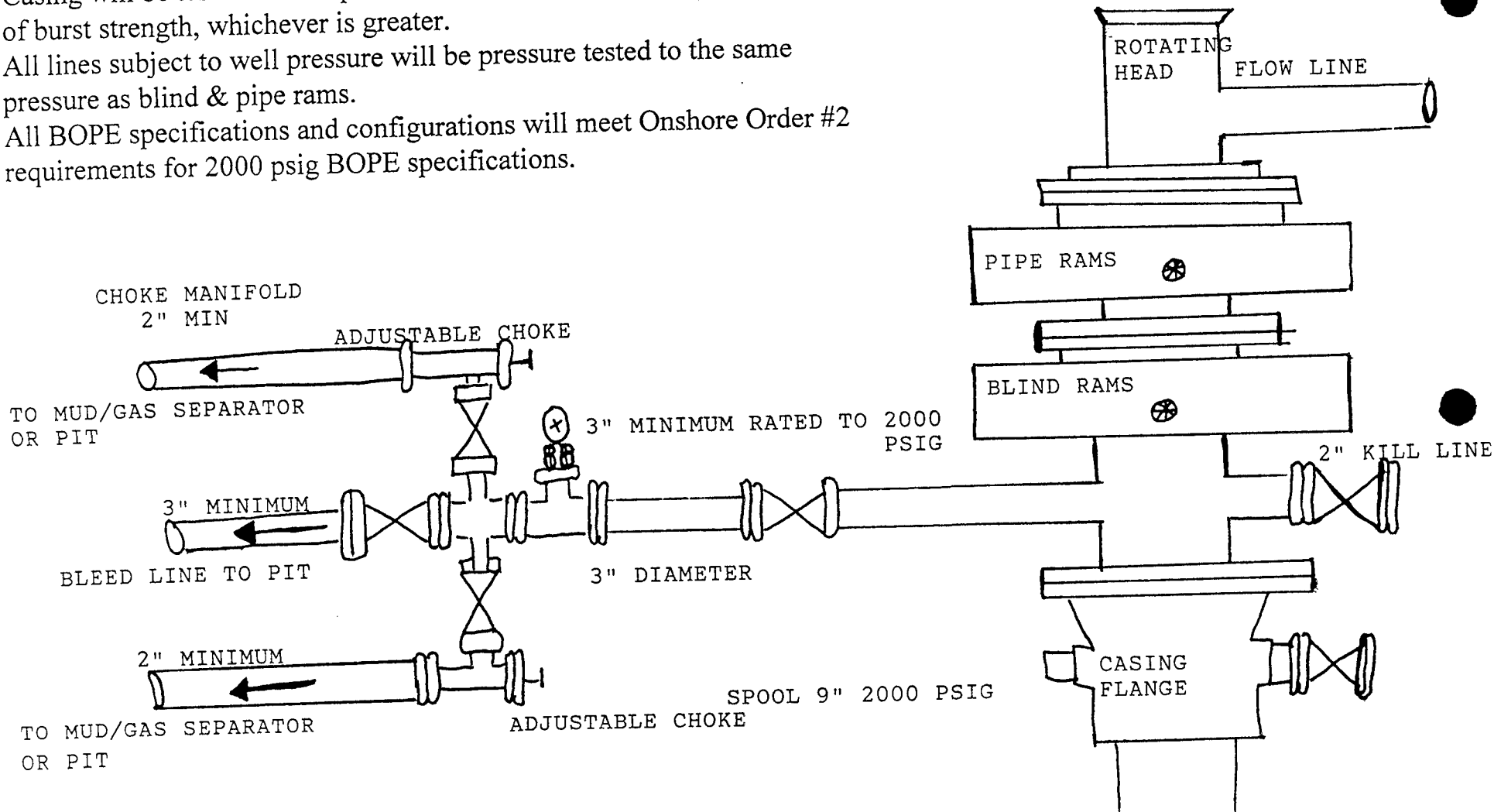
(Attachment: BOP Schematic Diagram)

## 2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.  
CASING FLANGE IS 9" 2000 PSIG RATED.  
BOPE 9" 2000 PSIG

### TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.  
Well Name & Number: Ute Tribal #18-11  
Lease Number: BIA 14-20-H62-3513  
Location: 2235' FSL & 1920' FWL NE/SW, Sec. 18, T5S R3W  
U.S.B.&M., Duchesne County, Utah  
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well.

Casing String and  
Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related  
Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production  
Notice - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

## THIRTEEN POINT SURFACE USE PROGRAM

### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 18.7 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.1 miles in length. See attached TOPO Map "B"
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
  - B. Abandoned wells - None
  - C. Temporarily abandoned wells - None.
  - D. Disposal wells - None.
  - E. Drilling wells - None.
  - F. Producing wells - 8\*
  - G. Shut in wells - None
  - H. Injection wells - None
- (\*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines - None

4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

**B. OFF WELL PAD**

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 600' from proposed location to a point in the NW/SW of Section 18, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #18-02 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded.  
The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

To protect the environment (without a chemical analysis)  
reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

Storage tanks will be used if drill sites are located on tribal



irrigable land, flood plains, or on lands under crop production.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

#### 9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the South side of the location.

The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the Northwest corner of the location.

Access to the well pad will be from the West.

N/A Diversion ditch(es) shall be constructed on the \_\_\_\_\_ side of the location (above/below) the cut slope, draining to the \_\_\_\_\_

N/A Soil compacted earthen berm(s) shall be placed on the \_\_\_\_\_ side(s) of the location between the \_\_\_\_\_

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons \_\_\_\_\_

X Corners No. 2 & 6 will be rounded off to minimize excavation.

## FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/ shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer

him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time

of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

- A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
- whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable

facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation

will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

N/A No construction or drilling activities shall be conducted between

\_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately \_\_\_\_\_ ft. \_\_\_\_\_ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter

1620 West 750 North

Vernal UT 84078

Telephone # (801)789-4120

Fax # (801) 789-1420

OPERATIONS

Vince Guinn

P.O. Box 607

Roosevelt, UT 84066

(801) 722-2531

Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the

field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

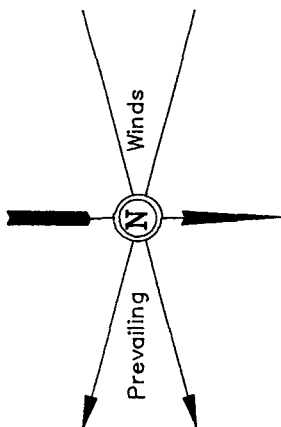
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Date

# PETROGLYPH OPERATING CO., INC.

## LOCATION LAYOUT FOR

UTE TRIBAL #18-11  
SECTION 18, T5S, R3W, U.S.B.&M.  
2235' FSL 1920' FWL



SCALE: 1" = 50'  
DATE: 10-11-96  
Drawn By: C.B.T.

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT

El. 195.5'  
**C-9.8'**  
(btm. pit) — C

NOTE:  
Pit Capacity W/2' of Freeboard is ±4,600 Bbls.

El. 193.8'  
**C-8.1'**  
(btm. pit) — B

El. 196.7'  
**C-3.0'**

Reserve Pit Backfill & Spoils Stockpile

El. 196.2'  
**C-2.5'**

**C-9.2'**  
El. 202.9'

**C-8.4'**  
El. 202.1'

**C-1.9'**  
El. 195.6'

Sta. 2+75

**C-5.6'**  
El. 199.3'

**C-2.6'**  
El. 196.3'

**F-4.3'**  
El. 189.4'

**F-0.7'**  
El. 193.0'

**F-11.2'**  
El. 182.5'

Elev. Ungraded Ground at Location Stake = 6196.3'

Elev. Graded Ground at Location Stake = 6193.7'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

Approx. Top of Cut Slope

Reserve Pit Backfill & Spoils Stockpile

RESERVE PITS (8' Deep)  
110'  
1 1/2:1 Slope  
Sta. 0+52

DATA

CATWALK 125'

PIPE RACKS

40'

RIG

DOG HOUSE

100'

MUD TANKS

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

STORAGE TANK

TRAILER  
TOILET  
FUEL

TRASH

Proposed Access Road

Topsoil Stockpile

Approx. Toe of Fill Slope

Sta. 0+00

Sta. 1+50



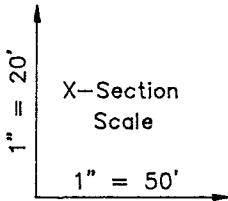
# PETROGLYPH OPERATING CO., INC.

## TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #18-11

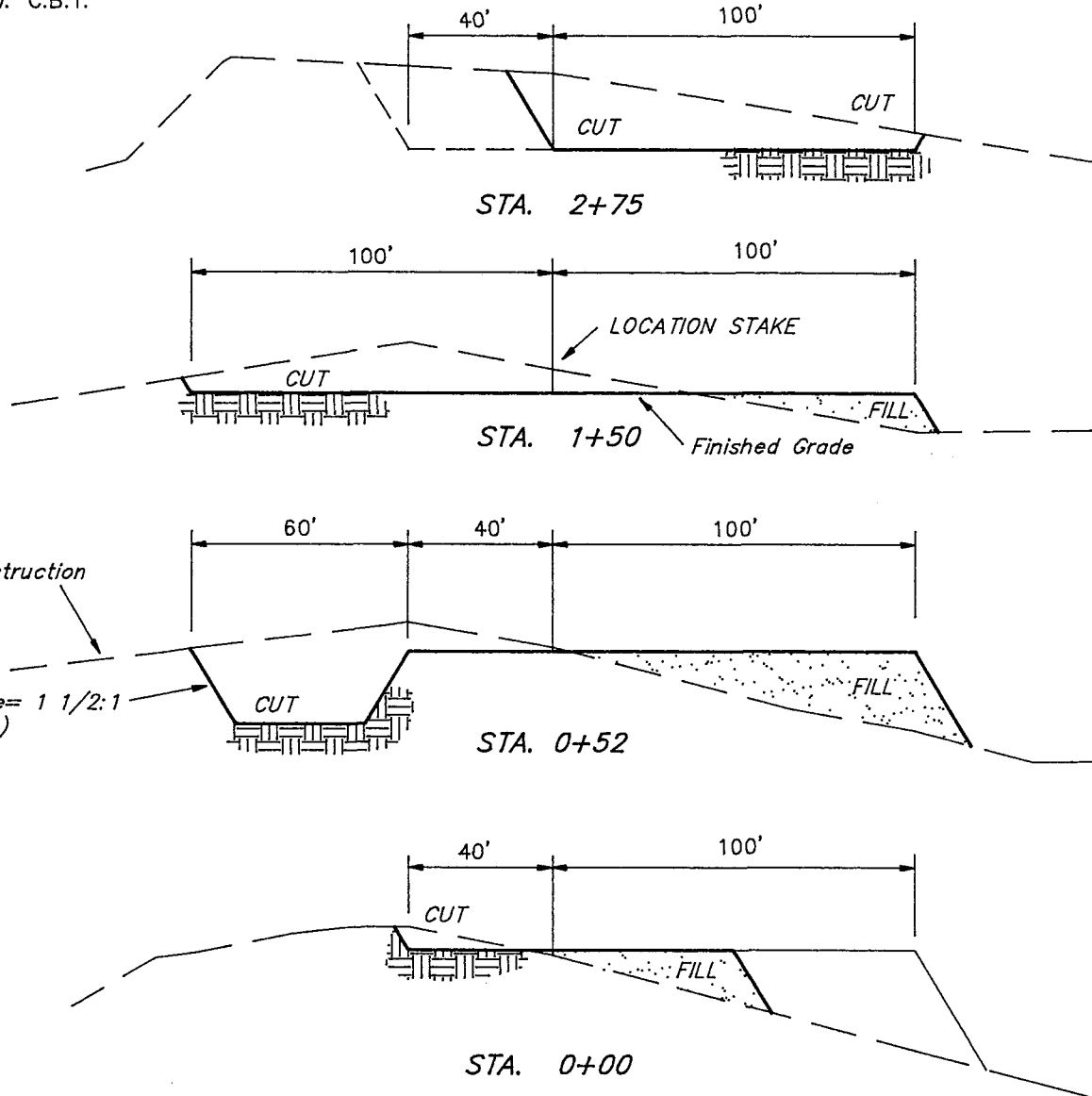
SECTION 18, T5S, R3W, U.S.B.&M.

2235' FSL 1920' FWL



DATE: 10-11-96

Drawn By: C.B.T.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	1,670 Cu. Yds.
Remaining Location	=	4,260 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>5,930 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>3,380 CU.YDS.</b>

EXCESS MATERIAL AFTER  
5% COMPACTION

= 2,370 Cu. Yds.

Topsoil & Pit Backfill  
(1/2 Pit Vol.)

= 2,370 Cu. Yds.


EXCESS UNBALANCE  
(After Rehabilitation)

= 0 Cu. Yds.

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85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

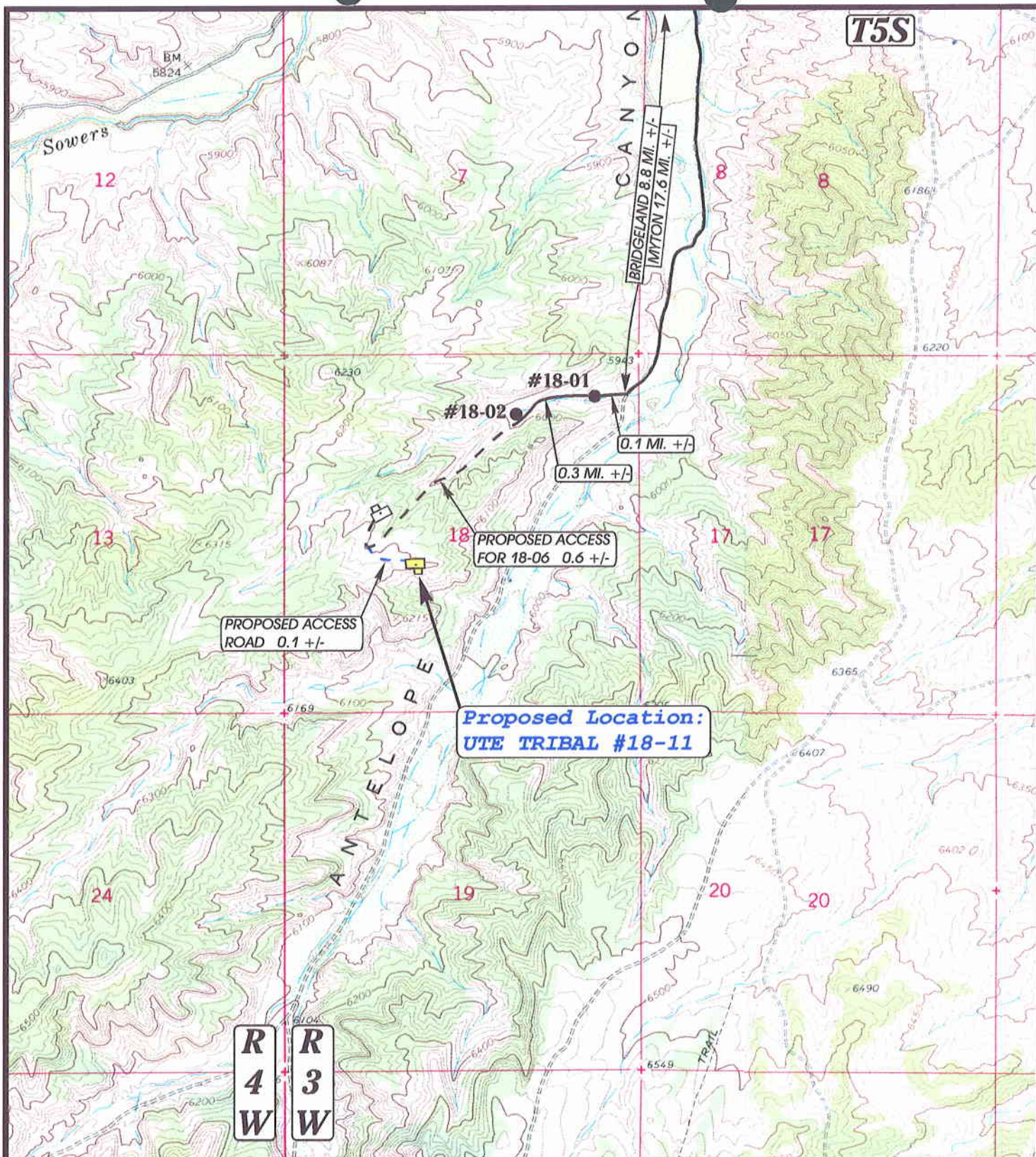


DATE: 10-15-96  
Drawn by: D.COX



**UTE TRIBAL #18-11  
SECTION 18, T5S, R3W, U.S.B.&M.  
2235' FSL 1920' FWL**





**UEIS**

**TOPOGRAPHIC  
MAP "B"**

**DATE: 10-15-96  
Drawn by: D.COX**

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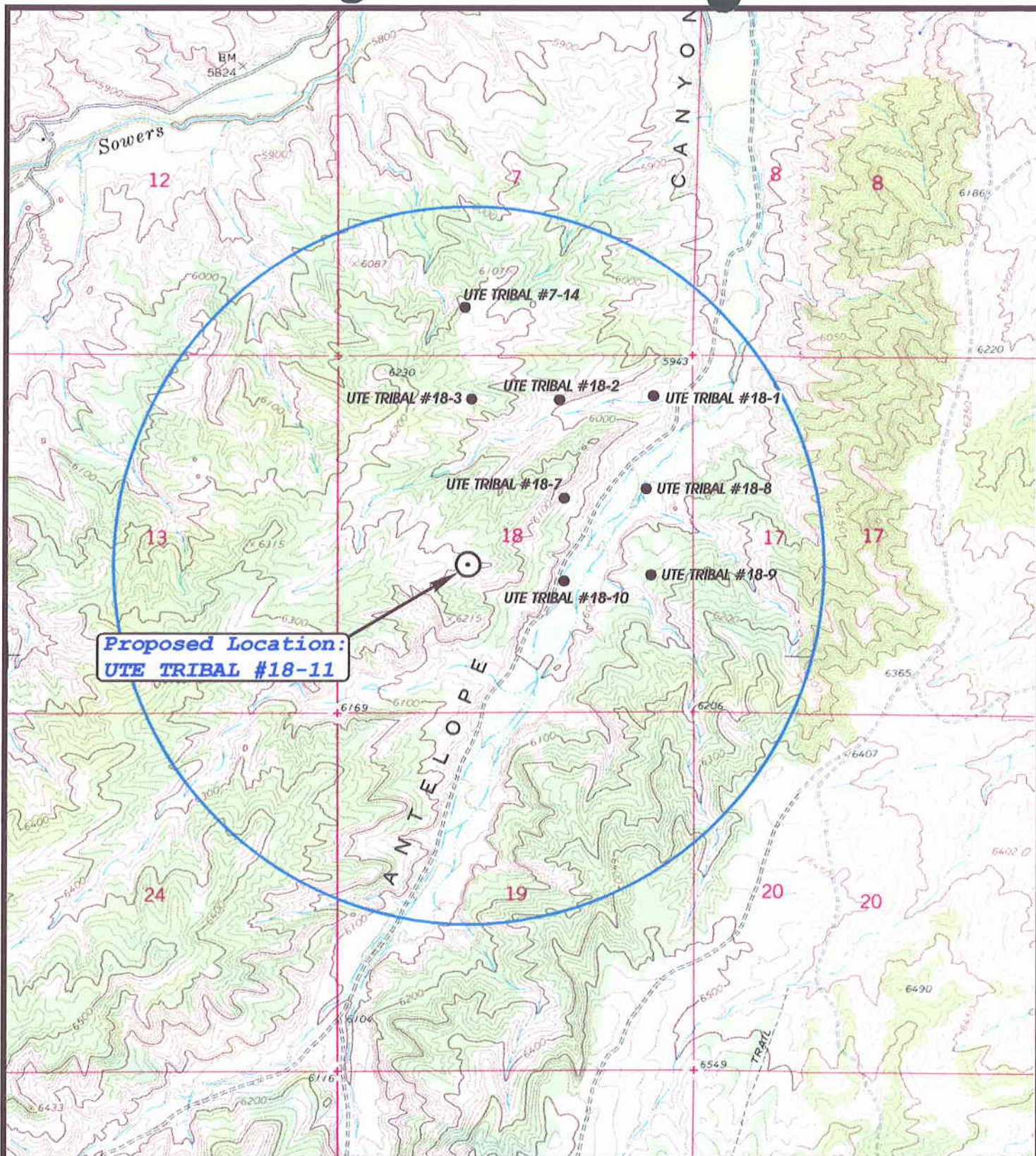


**PETROGLYPH OPERATING CO., INC.**

**UTE TRIBAL #18-11  
SECTION 18, T5S, R3W, U.S.B.&M.  
2235' FSL 1920' FWL**

**SCALE: 1" = 2000'**





# **LEGEND**

- Water Wells
- Abandoned Wells
- Temporarily Abandoned Wells
- Disposal Wells
- Drilling Wells
- Producing Wells
- Shut-in Wells

**UETs**  
 UTAH ENGINEERING & LAND SURVEYING  
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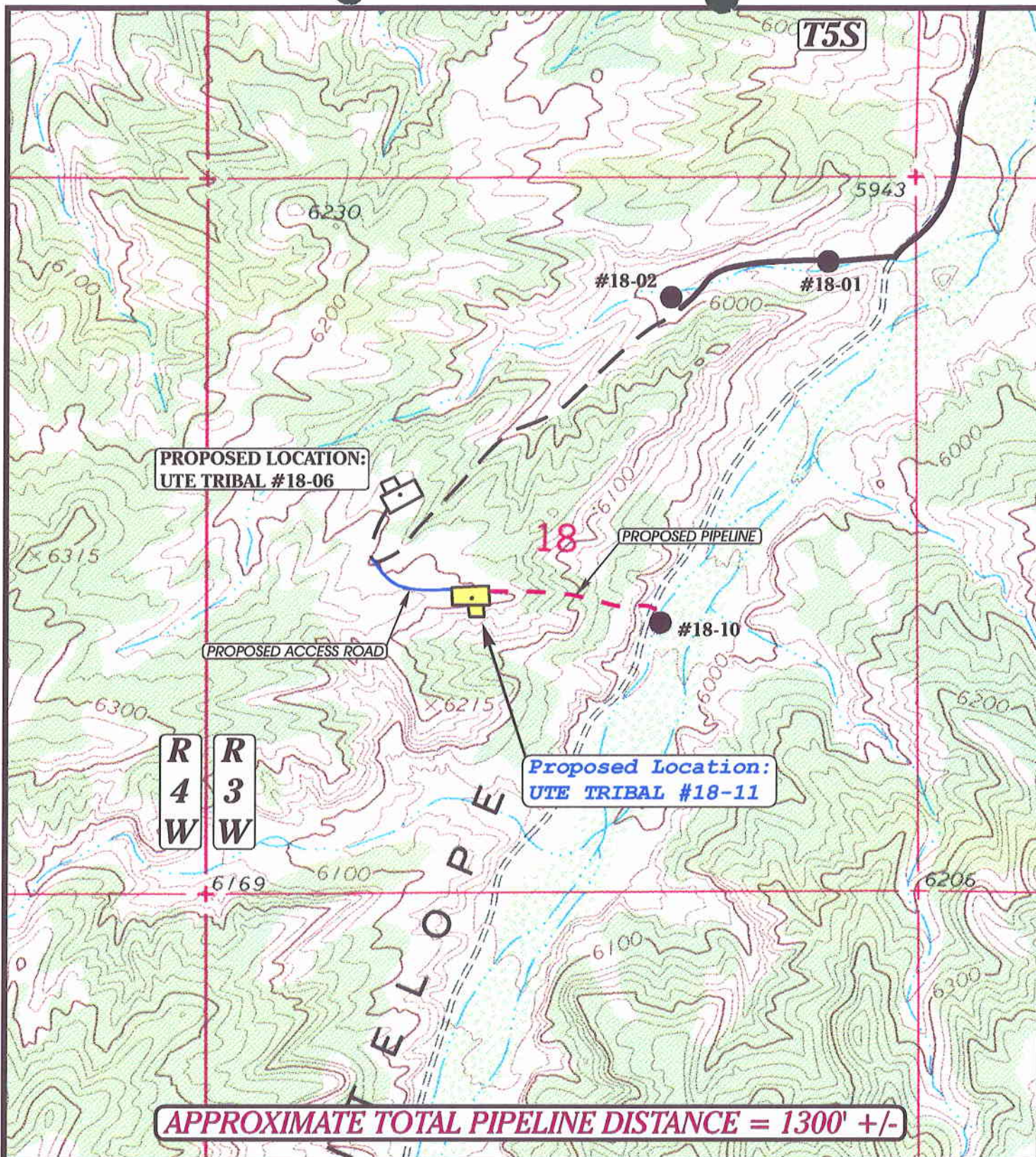
SCALE: 1" = 2000

**PETROGLYPH OPERATING CO., INC.**

UTE TRIBAL #18-11  
 SECTION 18, T5S, R3W, U.S.B.&M.  
 TOPOGRAPHIC  
 MAP "C"

DATE: 10-15-96 D.COX





**TOPOGRAPHIC  
MAP "D"**

**UELS**

— — — Existing Pipeline  
- - - Proposed Pipeline



SCALE: 1" = 1000'

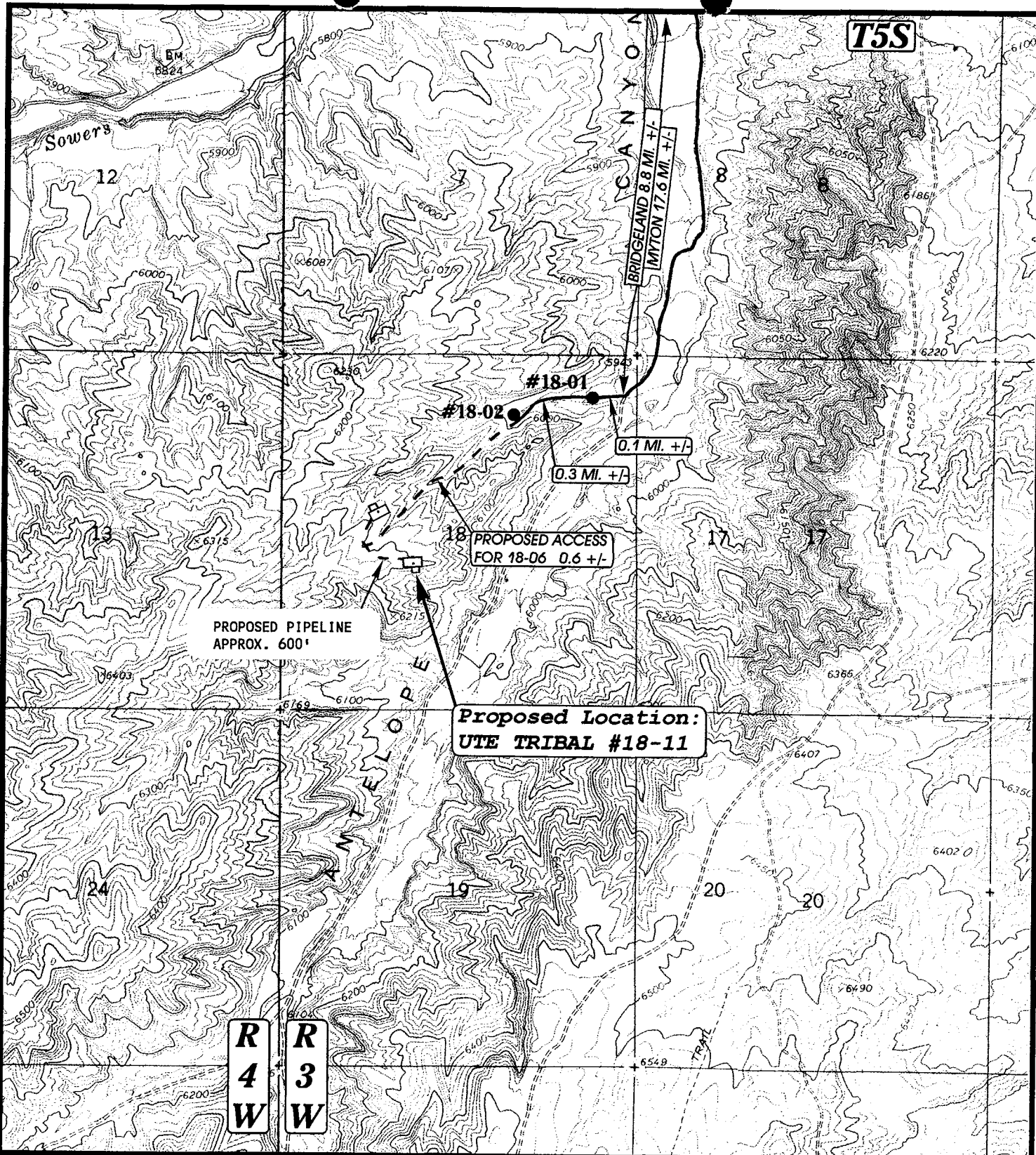
**PETROGLYPH OPERATING CO., INC.**

**UTE TRIBAL #18-11  
SECTION 18, T5S, R3W, U.S.B.&M.**

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

**DATE: 10-15-96  
Drawn by: D.COX**





WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/21/97

API NO. ASSIGNED: 43-013-31782

WELL NAME: UTE TRIBAL 18-11  
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

NESW 18 - T05S - R03W  
SURFACE: 2235-FSL-1920-FWL  
BOTTOM: 2235-FSL-1920-FWL  
DUCHESNE COUNTY  
ANTELOPE CREEK FIELD (060)

LEASE TYPE: IND  
LEASE NUMBER: 14-20-H62-3513

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(Number \_\_\_\_\_)  
☒ Potash (Y/N)  
☒ Oil shale (Y/N)  
☒ Water permit  
(Number 43-10152)  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

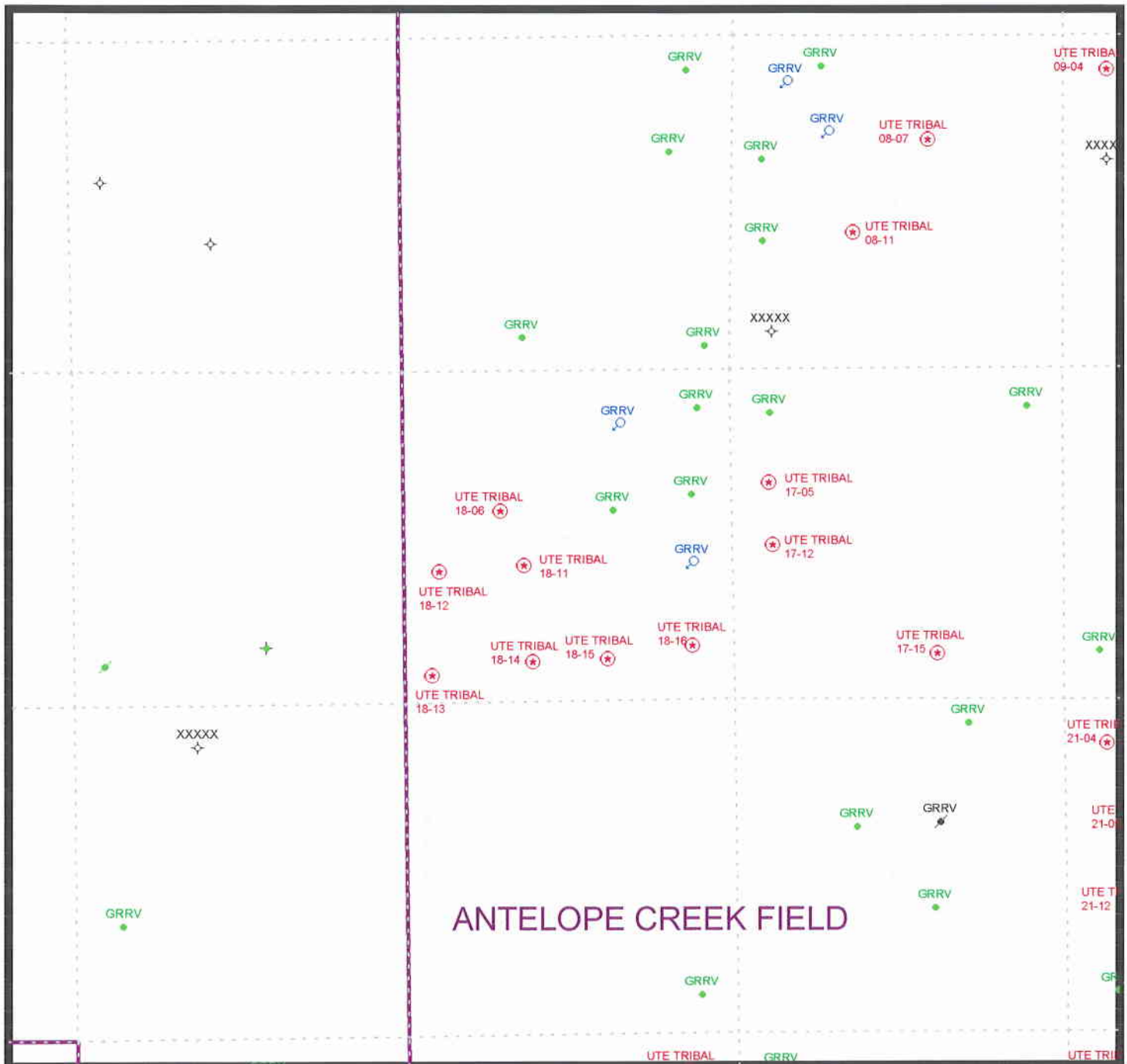
\_\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
\_\_\_\_ R649-3-2. General.  
☒ R649-3-3. Exception.  
\_\_\_\_ Drilling Unit.  
\_\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_\_ Date: \_\_\_\_\_

COMMENTS:

*Exception Letter, 1/31/97.*

STIPULATIONS:

**OPERATOR: PETROGLYPH**  
**FIELD: ANTELOPE CREEK (060)**  
**SEC. TWP. RNG: 18, T5S R3W**  
**COUNTY: DUCHESNE**  
**UAC: R649-3-2 & R649-3-3**



PREPARED:  
DATE: 22-JAN-97





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

February 4, 1997

Petroglyph Operating Company, Inc.  
P.O. Box 607  
Roosevelt, Utah 84066

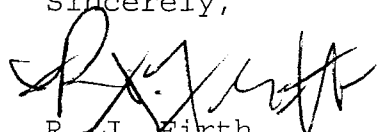
Re: Ute Tribal 18-11 Well, 2235' FSL, 1920' FWL, NE SW, Sec. 18,  
T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31782.

Sincerely,

  
R. L. Firth  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.  
Well Name & Number: Ute Tribal 18-11  
API Number: 43-013-31782  
Lease: 14-20-H62-3513  
Location: NE SW Sec. 18 T. 5 S. R. 3 W.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface

2235' FSL &amp; 1920' FWL NE/SW

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

18.7 MILES SOUTHWEST OF MYTON, UTAH

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT. 1920'  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6008.7'

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6193.7' GRADED GROUND

## 22. APPROX. DATE WORK WILL START\*

JANUARY, 1997

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl <sub>2</sub>
7 7/8	5 1/2	15.5#	6008.7'	+ 1/4 #/sx celloflake.
				50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG ±) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah  
Ute Tribe, Fort Duchesne, Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

AGENT FOR PETROGLYPH

DATE

1-14-97

(This space for Federal or State office use)

CONSENT OF THE BUREAU OF LAND MANAGEMENT  
TO OPERATE, DRILL, OR DEEPEN

PERMIT NO.

NOTICE OF APPROVAL

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

Assistant Field Manager  
Mineral Resources

DATE

FEB 04 1997

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES GOVERNMENT  
memorandum

DATE: January 29, 1997

REPLY TO  
ATTN OF: Superintendent, Uintah & Ouray Agency, Ft. Duchesne, UT

SUBJECT: Concurrence for Application for Permit to Drill and Corridor ROW's

TO: Bureau of Land Management, Vernal District Office  
Attn.: Minerals Division

RECEIVED

JAN 30 1997

We recommend approval of the Application for Permit to drill on the subject wells.

TOWNSHIP 5 SOUTH, RANGE 3 WEST, USB&M

Sec. 18	UT 18-06	SE/4NW/4, See Below
	UT 18-11	NE/4SW/4, See Below
	UT 18-12	NW/4SW/4, See Below
Sec. 29	UT 29-12	NWSW. and Sec. 30, N1/2SE. See Below
	UT 29-05	SW1/2NW, See Below

Each of the above well pads with an access corridor shall contain the following:

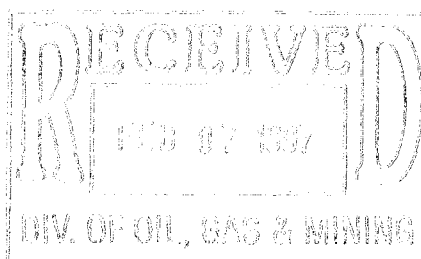
1. 3" steel buried oil pipeline	4. 4 1/2" surface production pipeline
2. 3" poly buried water pipeline	5. 6" steel buried water pipeline
3. 3" poly buried gas pipeline	6. Electrical power line

Based on available information received on December 10, 1996, the proposed locations have been cleared of the following areas of environmental impact.

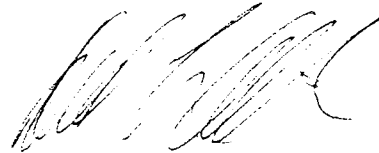
YES X	NO	Listed threatened or endangered species
YES X	NO	Critical wildlife habitat
YES X	NO	Archaeological or cultural resources
YES	NO	Air quality aspects (to be used only if project is in or adjacent to a Class I area of attainment)
YES	NO	Other (if necessary)

COMMENTS: The Ute Tribe Energy & Minerals is recommending the following criteria to be adhered during all phases of construction activities.

1. The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction, as a Tribal Technician is to monitor construction.



2. Fifty (50) foot corridor rights-of-ways shall be granted with the following:
  - a. Buried pipelines shall be buried a minimum of 3 feet below soil surface.
  - b. Access roads shall be limited to 22 feet, except as granted for sharp turns.
  - c. Surface pipelines shall be limited to 13 feet wide.
  - d. Buried pipelines shall be limited to 15 feet wide, and construction will be monitored by a Tribal Technician.
3. Pipelines adjacent to access roads shall be buried within 15 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, as safety requirements will allow.
4. Petroglyph Operating Company will assure the Ute Tribe that any/all contractors and any sub-contractors has acquired a Tribal Business License and have an access permits prior to construction.
5. All vehicular traffic, personnel movement, construction and restoration operations should be confined to areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.
6. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
7. The personnel from the Ute Tribe Energy & Minerals Department should be consulted should cultural remains from subsurface deposits be exposed or identified during construction.
8. All recommendations of the Bureau of Indian Affairs combined site specific Environmental Analysis report (EA) shall be strictly adhered, during and after construction.

A handwritten signature in dark ink, appearing to be a stylized name, possibly "J. P. [unclear]".

JAN 28 1997

**SITE SPECIFIC  
ENVIRONMENTAL ANALYSIS**

**1.0 PROPOSED ACTION**

Petroglyph Operating Co., Inc. is proposing to drill oil well #18-11, and construct pipelines, and powerlines in approximately 1800 feet of corridor right-of-way. The corridor right-of-way shall include the access road and shall be 50 feet wide from Ute Tribal well #18-06 to Ute Tribal Well #18-11. Between Ute Tribal Well 18-11 and Ute Tribal Well #18-10 the corridor right-of-way shall not include an access road and it shall be 30 feet wide.

**2.0 ALTERNATIVE ACTIONS**

- A. **ALTERNATIVE CONSIDERED:** The proposed action is the preferred alternative.
- B. **NO ACTION:** Under the no action alternative the proposed action would not be implemented.
- C. **OTHER:** NA

**3.0 PERMITTEE/LOCATION**

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 12-1-96
- C. Well number- 18-11
- D. Right-of-way- Corridor R\W approx. 1300 feet for pipelines, & 0.1 mile access road.
- E. Site location- NESW, Section 18, T5S, R3W, USB&M.

**4.0 SITE SPECIFIC SURVEY**

**A. SITE DESCRIPTION**

- 1. Elevation (feet) 6196
- 2. Annual precipitation (inches)- 8-12
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") gravelly shale loam with moderate permeability.

**B. VEGETATION**

- 1. Habitat type is upland shrub & pinion/juniper.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 18% grasses, 46% shrubs, 8% forbs & 10% trees. The main variety of ~~grasses~~ are squirrel tail, Indian ricegrass, poa, needle & thread, bluebunch wheat, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, & annuals. Shrubs consist of black sagebrush, prickly pear, shadscale. Trees

are pinion pine and Utah Juniper.

4. Observed Threatened & Endangered species: None.

5. Potential For Threatened & Endangered species: Slight

7. Observed Noxious Weeds: None

8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game-The area is used throughout the year by mule deer, elk, and antelope.

2. Small Game-The area is used by cottontail rabbit.

3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 2.0 miles south east of this site in Section 20, T5S, R3W, USB&M.

5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.

6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

4.2 PRESENT SITE USE

A. USAGE

	<u>acres</u>
Rangeland	2.51
Irrigable land	0
Woodland	0
Non-Irrigable land	2.51
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

4.3 CULTURAL RESOURCES

A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist.

5.0 ENVIRONMENTAL IMPACTS

A. SURFACE ALTERATIONS

	<u>acres</u>
1. Access road	0.36
2. Well site	1.26
3. Pipeline right-of-way	0.00
4. Corridor right-of-way	0.89
5. Total area disturbed	2.51

B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.18
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:  
Yes No X

C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing, but at the present time no permits have been issued for the area. This project will reduce livestock grazing by approximately 0.18 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

6.0 MITIGATION STIPULATIONS



A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.
2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeding all disturbed areas.

2. SURFACE PIPELINES

Surface pipelines will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way.

Where pipelines do not parallel roads but cross country between stations, they shall be welded in place at wellsites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

3. BURIED PIPELINES

Buried pipelines shall be buried a minimum of 3.0 feet below the soil surface. After construction of the pipeline is completed the disturbed area of the right-of-way shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation.

Where pipelines are buried adjacent to access roads the first pipeline shall be buried within 1.5 feet from the outside edge of the barrow ditch of the road. If additional pipelines are needed they shall be constructed to parallel the outer side of the first pipeline, and they shall be constructed as close to the first pipeline as safety requirements allow.

4. CORRIDOR RIGHT-OF-WAY

To reduce surface damages a 30 foot wide corridor right-of-way will be used for the surface pipelines, buried pipelines, and electrical powerlines. (There will be a separate 30 wide right-of-way for the access road. The access road will not be a corridor right-of-way.)

The constructed travel width of the access road shall be limited to 22 feet, except it may be wider where sharp curves, or intersections are required.

5. An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.

6. A closed production system will be used. Production fluids will be contained in leak proof tanks. All reduction fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

7. Although there is a 30 foot right-of-way for the access road, the bladed area of the access road will be limited to 22 feet in all areas except where deep cuts and fills are required, sharp turns are required, or at the intersections with other roads.

#### C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

Because the wellsite is located more than 1/2 mile from a Ferruginous hawk nest this wellsite may be constructed and drilled at any time throughout the year.

#### D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

#### E. UTE TRIBAL REGULATIONS

(1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its sub-contractors, shall acquire access permits and business permits from the Ute Indian Tribe.

(2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

### 7.0 UNAVOIDABLE ADVERSE IMPACTS

#### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

#### B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

#### C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

### 8.0 CUMULATIVE IMPACTS

#### A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

### 9.0 NEPA COMPLIANCE

#### A. RESEARCH/DOCUMENTATION

Based on available information, 12-8-96, the proposed location in the following areas of environmental impacts has been cleared:

<u>X</u>	Yes	_____	No	Listed Threatened & Endangered species
<u>X</u>	Yes	_____	No	Critical wildlife habitat
<u>X</u>	Yes	_____	No	Historical and cultural resources

## 10.0 REMARKS

### A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

## 11.0 RECOMMENDATIONS

### A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

12-10-96  
Date

Dale A. Hamberg  
Representative - BIA Land  
Operations, Uintah and Ouray  
Agency

## 12.0 DECLARATION

### A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

12/10/96  
Date

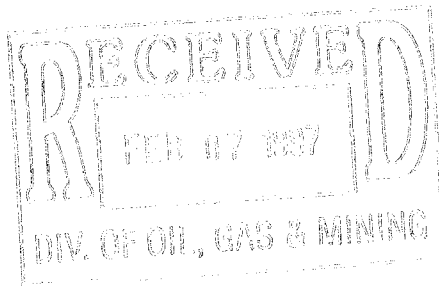
Mike L. Allen  
Superintendent,  
Uintah and Ouray Agency

## 14.0 CONSULTATION

### A. REPRESENTATIVES/ORGANIZATION

Dale Thomas- BIA  
Ed Trotter-Petroglyphs  
Lonnie Nephi-UTEM  
Greg Darlington-BLM

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COAs Page 1 of 9  
Well No.: Ute Tribal 18-11

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 18-11

API Number: 43-013-31782

Lease Number: 14-20-H62-3513

Location: NESW Sec. 18 T.5S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.



If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
Petroleum Engineer

Jerry Kencka (801) 781-1190  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## SURFACE CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

A 50 foot corridor rights-of-way shall be granted with the following: Access roads shall be limited to 22 feet, except as granted for sharp turns. Surface pipelines shall be limited to 13 feet. Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Pipelines buried adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, and placed as safety requirements will allow.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Mitigation Stipulations from the site specific Environmental Analysis:

Before the site is abandoned, the company will be required to restore the well site and right-of-ways to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

The pipeline will be constructed to lay on the soil surface, and the right-of-way for the pipeline will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines cross country between stations, they shall be welded in place at wellsites or

on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

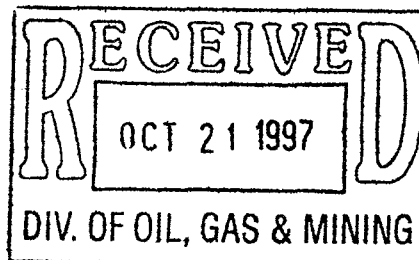
A buried line is not mentioned in the APD, but the burying and related reseeding instructions are described in the Environmental Analysis for what may be the eventual installation of a water injection line. Reseeding in the areas where there is soil disturbance from buried pipelines shall occur between September 15 and November 15 of the same year following construction of the buried line.

An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

October 15, 1997

Vicky Dyson  
State of Utah  
Division of Oil, Gas & Mining  
1594 W. North Temple, Ste.1210  
Salt Lake City, UT 84114



Ms. Dyson:

Enclosed please find the logs listed below for the wells located in Duchesne County, Utah.

<u>Well Name</u>	<u>Log</u>
Ute Tribal 19-06	CNL & AIT
Ute Tribal 16-07	CNL & AIT
Ute Tribal 19-05	CNL & AIT
Ute Tribal 18-11	CNL & AIT
Ute Tribal 15-12	CNL & AIT
Ute Tribal 16-03	CNL & AIT
Ute Tribal 14-05	CNL & AIT
Ute Tribal 19-09	CNL & AIT
Ute Tribal 16-08	CNL & AIT
Ute Tribal 19-04	CNL & AIT
Ute Tribal 07-10	CNL & AIT
Ute Tribal 19-03	CNL & AIT
Ute Tribal 30-10	CNL & AIT
Ute Tribal 30-11	CNL & AIT

13013 31732 7053 20320 18

If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

A handwritten signature in cursive script that reads "Judy Gates".

Judy Gates  
Petroleum Geology Technician

FORM 7

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

## REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: LTE TRIBAL 18-11API number: 43-013-317822. Well Location: QQ NESW Section 18 Township 5S Range 3W County Duchesne3. Well operator: PETROGLYPH Operating Company, Inc.Address: P.O. Box 1839Hutchinson, KS 67504Phone: (801) 722-25314. Drilling contractor: Chew DrillingAddress: P.O. Drawer 40Buckhannon, WV 26201Phone: 304-472-4610

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	205	DRY	ED
205	424	DAMP No Sample	Fresh
424	1030	1/2 Damp - NO Flow	NO CIRC WITHOUT SUMP PUMP
1027-1035		1/2" x 7"	Fresh

6. Formation tops:


If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 4-18-97Name & Signature: L. Debra BellTitle: Operations Coordinator



## COMPLETION REPORT

CONFIDENTIAL

9/25/97

*Petroglyph Operating Company, Inc.*

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<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> KB 6204
<b>Lease:</b> Ute Tribal 18-11	GL 6194
<b>API #:</b> 43-013-31782	<b>Property:</b> 50141
<b>Location:</b> 18 - 5 S - 3 W	<b>AFE/EPE Number:</b> 41306
<b>County, St.:</b> Duchesne UT	

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Activity Date	Daily Cost	Activity Description
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7/11/97	\$3,000.00	PERFORATIONS: 4882-4886 Green River C (09.2) 4 SPF 16 shots
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MIRU Duco Well Service Rig #2. NU BOP & frac head. Pressure test 5½" csg to 4500 psi. Holding for 15 min. RU Schlumberger & perforate C9.2 zone @ 4882-4886 w/ 4 spf (16 holes). RD Schlumberger. RIH w/ 2-7/8" tbg to ±4900' spot 6 bbls 15% HCl @ perfs & breakdown perfs. No initial break. Inj rate @ 3½ bpm @ 1400 psi. RIH w/ EOT @ ±5930'. Rev out HCl. POOH w/ tbg. SWIFN. Will prep to frac on 7-15-97. Frac crew not available on 7-14-97.

# COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> KB 6204
<b>Well:</b> Ute Tribal 18-11	GL 6194
<b>County, St.:</b> Duchesne UT	

Activity Date	Daily Cost	Activity Description
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7/15/97	\$30,318.00	PERFORATIONS: 4882-4886 Green River C (09.2) 4 SPF 16 shots WELLBORE: 6009 RTD
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Open well w/ C9.2 zone open & brkdown yesterday. This a.m. SICP @ 0 psi. RU HES & frac C 9.2 zone w/ 6000 gal Boragel 30 w/ 31000# 20/40 sand @ .5 to 10 ppg. MTP @ 2416 psi. ATP @ 2250 psi. MTR @ 22 bpm. ATR @ 20 bpm. ISIP @ 2209 psi. 5 min @ 1961 psi. pfg @ .88.

RU Schlumberger & lubricate in hole w/ RBP & 4' perfgun. Set RBP @ 4870'. Pressure up to 3000 psi on RBP. Holding. Bleed off csg. Would not stop flowing. Tag RBP w/ wireline. RBP still @ 4870'. Test RBP again to 300 psi. RBP holding. Pull up w/ gun to correlate. Started pulling over @ 4780'. Stopped @ 4740'. Pressured up to 3000 psi & gun started moving. Pulled to ±4654' & stopped. Pulled wireline apart @ 1900# tension. POOH w/ wireline & left ±400' wireline in well w/ collar locator & 4' x 4" HEG gun loaded w/ 4 spf. RIH w/ wireline spear, bumper sub & jars. Tag fill @ ±4400' (±254' above fish). Could not circ w/ this equip. POOH w/ spear. RIH w/ NC to ±2500' & SWIFN.

## STIMULATION TREATMENT:

### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6000	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	31000	

### PRESSURE/RATE:

Maximum:	2416 psi	22 BPM
Average:	2250 psi	20 BPM

### SI PRESSURE:

	TP	CP
ISIP:	2209	
5 Min:	1961	

### FLUID RECOVERY

ZONE BLF:	380
ZONE BLFR:	0
ZONE BLFTR:	380

## COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

**Operator:** Petroglyph Operating Company, Inc.  
**Well:** Ute Tribal 18-11  
**County, St.:** Duchesne UT

**Elevation:** KB 6204  
GL 6194

Activity Date	Daily Cost	Activity Description
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7/16/97	\$5,154.00	
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Finish RIH w/ NC. Tag sand @ 4400'. Clean out bridges & fill to 4749'. Circ clean. Appears that fish may be going down hole. POOH & LD NC. PU spear, bumper sub & jars & RIH. Tag fish @  $\pm 4814'$  ( $\pm 66'$  lower than where left on last trip). Attempt to hook wireline w/ spear. POOH w/ spear and found no wire or fish. LD spear & RIH w/ overship w/  $2\frac{1}{4}"$  grapple. Bumper sub & latch onto fish & circ for 15 min. Pull up & jar on fish. Fish free after 3 jars. POOH w/ fish. Pulling over & dragging for first 300', then no drag. Got out of hole w/ 4' gun, collar locator &  $\pm 20'$  of wireline. LD fish & tools. May still have 20-40' of cable in hole on RBP. SWIFN.

Note: RBP appears to be leaking due to circulating oil during fishing operations.

7/17/97	\$3,800.00	PERFORATIONS:
		4882-4886      Green River C (09.2)      4 SPF      16 shots
		4832-4836      Green River C (08.2)      4 SPF      16 shots
		WELLBORE:
		6009      RTD

Open well. SICP @ 0 psi. W/ fish retrieved yesterday and possible wireline o top of RBP @ 4870'. RIH w/ ret head for RBP to 4855'. Clean out to RBP @ 4870'. Rel RBP w/ some problems. POOH w/ RBP & found  $\pm 5'$  of wireline on plug & in ret head. RBP appears to have center seal bad. LD plug & fishing tools.

RIH w/  $5\frac{1}{2}"$  RTTS to 4870' & set. Test to 4500 psi (holding). POOH to 4843' & spot 6 bbls 15% HCl @ C8.1 interval. POOH w/ ret head.

RU Schlumberger & perforate C8.1 zone @ 4832-4836' w/ 4 spf (16 holes). RD wireline. Breakdown C8.1 perfs @ 3000 psi. Pump 15 bbls K wtr to displace 15% HCl @ 2 bpm @ 2100 psi & SWIFN.

### FLUID RECOVERY

ZONE BLF:	380
ZONE BLFR:	0
ZONE BLFTR:	380
ZONE % REC:	100
WELL BLF:	380
WELL BLFR:	0
WELL BLFTR:	380

# COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

**Operator:** Petroglyph Operating Company, Inc.

**Elevation:** KB 6204

**Well:** Ute Tribal 18-11

GL 6194

**County, St.:** Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

7/18/97	\$31,451.00	PERFORATIONS:
		4882-4886 Green River C (09.2) 4 SPF 16 shots
		4832-4836 Green River C (08.2) 4 SPF 16 shots
		4744-4748 Green River C (06) 4 SPF 16 shots
		4736-4738 Green River C (06) 4 SPF 8 shots
		WELLBORE:
		6009 RTD

RU HES & frac C8.2 zone w/ 7624 gal Boragel 30 w/ 42800# 20/40 sand @ .5 to 10 ppg. MTP @ 3487 psi. ATP @ 2350 psi. MTR @ 25.2 bpm. ATR @ 24 bpm. ISIP @ 3112 psi. 5 min @ 2215 psi. pfg @ 1.07.

RU Schlumberger & lubricate in well w/ RBP & perf guns. Set RBP @ 4770' & test to 3000 psi. Bleed off csg & perforate C6 zones @ 4744-4748' w/ 4 spf (16 holes) & 4736-4738 w/ 4 spf (8 holes). Attempt to break dwn w/ K wtr. Failed @ 3000 psi. Spot HCl @ Perfs w/ dump bailer & breakdown @ 2800 psi. Inj rate @ 2 bpm @ 2200 psi.

RU HES & frac C6 zones w/ 250 gal 15% HCl & 7609 gal Boragel 30 w/ 40800# 20/40 sand @ .5 to 10 ppg. MTP @ 2610 psi. ATP @ 2200 psi. MTR @ 25.9 bpm. ATR @ 22.5 bpm. ISIP @ 2084 psi. 5 min @ 1867 psi. (Note: Saw  $\pm$ 400 psi break w/ HCl @ perfs). Flow C6 zone to tank @ 5 min @  $\pm$ 60 bph to 0 psi. Flowed 100 bbls. RIH w/ ret heat to  $\pm$ 3750'. Well flowing w/ show of sand. Circ well clean w/ 130 bbls K wtr. RIH to  $\pm$ 4660' & circ w/ 50 bbls K wtr. POOH w/ 10 jts tbg & SWIFN.

## STIMULATION TREATMENT:

### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7624	gal

PROPPANT:	Type	Total Lbs: Ramp Range
	20/40 sand	42800

### PRESSURE/RATE:

Maximum:	3487 psi	25.2 BPM
Average:	2350 psi	24 BPM

## STIMULATION TREATMENT:

### FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7609	gal

PROPPANT:	Type	Total Lbs: Ramp Range
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# COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6204

Well: Ute Tribal 18-11

GL 6194

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

20/40 sand

40800

### PRESSURE/RATE:

Maximum: 2610 psi

25.9 BPM

Average: 2200 psi

22.5 BPM

### FLUID RECOVERY

ZONE BLF: 967

ZONE BLFR: 100

ZONE BLFTR: 867

ZONE % REC: 10.3%

WELL BLF: 967

WELL BLFR: 100

WELL BLFTR: 867

WELL % REC: 10.3%

7/19/97

\$2,000.00

### PERFORATIONS:

4882-4886 Green River C (09.2) 4 SPF 16 shots

4832-4836 Green River C (08.2) 4 SPF 16 shots

4744-4748 Green River C (06) 4 SPF 16 shots

4736-4738 Green River C (06) 4 SPF 8 shots

### WELLBORE:

6009 RTD

Open well w/ C6 zone flowed o 0 psi yesterday & C8.2 & C9.2 zones isolated. SICP @ 0 psi. SITP @ 0 psi. RIH & tag sand @ 4720'. Clean out to RBP @ 4770' rel RBP, POOH & LD RBP. RIH w/ ret head & tag sand @ 4820'. Clean out to BVBP @ 4870'. Rel BVBP & RIH to 5530' to insure no fillup. POOH to 5030' & set RBP. POOH to 4870' & RU to swab. Made 10 runs. IFL @ surf. Had trace of oil on run #2 & increased to 50% on last run. FFL @ 2000'. TWR @ 140 bbls. TOR @ 7 bbls. SWIFN.

### FLUID RECOVERY

ZONE BLF: 967

ZONE BLFR: 240

ZONE BLFTR: 727

ZONE % REC: 24.8%

WELL BLF: 967

WELL BLFR: 240

WELL BLFTR: 727

WELL % REC: 24.8%

# COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

**Operator:** Petroglyph Operating Company, Inc.

**Elevation:** KB 6204

**Well:** Ute Tribal 18-11

GL 6194

**County, St.:** Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

7/21/97	\$20,390.00	
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**PERFORATIONS:**

4882-4886	Green River C (09.2)	4 SPF	16 shots
4832-4836	Green River C (08.2)	4 SPF	16 shots
4744-4748	Green River C (06)	4 SPF	16 shots
4736-4738	Green River C (06)	4 SPF	8 shots

**WELLBORE:**

6009	RTD
------	-----

Open well. SICP @ 150 psi. SITP @ 10 psi. RU & swab well. Made 6 runs. IFL @ 800'. 1st run 90%. Run #2 @ 5% & increased to 80% on last run. FFL @ 1800'. TWR @ 39 bbls. TOR @ 33 bbls. RD swab. RIH w/ ret head & tag sand @ 5025'. Clean out to BVBP @ 5030'. Rel BVBP & POOH. RIH w/ BHA w/ EOT @ ±4956 & B2 TAC @ ±4635. ND BOPs & frac head.

NU prod'n head & set B2 TAC w/ ±10000# tension (shear @ 40000#). NU WH. RIH w/ pump & rods. Seat & space out pump. Test to 500 psi & long stroke pump w/ good action. Well ready for prod'n. SWIFN. Will RD service rig in a.m. FINAL REPORT.

BHP = 1704 psi = .36 psi/ft Calc @ C6 @ 4736'.

**TUBING DETAIL**

	LENGTH	DEPTH
KB	10.00	
2-7/8" 6.5# J-55 tbg (147 jts)	4624.99	4634.99
B2 TAC (40000# shear)	2.85	
2-7/8" 6.5# J-55 tbg (7 jts)	214.95	4852.79
PSN	1.10	
2-7/8" 6.5# J-55 tbg (1 jt)	31.73	
Mech SN	.80	
2-7/8" Perf Sub	6.00	
2-7/8" x 6.5# J-55 tbg (2 jts)	63.40	
Bull Plug	.73	
EOT		4956.55

**ROD DETAIL**

1½" X 22' PR w/ liner  
 7/8" x 4' Pony rod (1)  
 7/8" x 6' Pony rod (1)  
 7/8" x 8' Pony rod (1)  
 7/8" Slick Rods (81)  
 3/4" Rods (112) Each 4th from bottom  
 guided-4 tti.  
 2½" x 1-3/4" x 16' RHAC 40 ring PA

## COMPLETION REPORT

9/25/97

Petroglyph Operating Company, Inc.

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<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> KB 6204
<b>Well:</b> Ute Tribal 18-11	GL 6194
<b>County, St.:</b> Duchesne UT	

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Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

FLUID RECOVERY

ZONE BLF:	967
ZONE BLFR:	279
ZONE BLFTR:	688
ZONE % REC:	28.9%
WELL BLF:	967
WELL BLFR:	279
WELL BLFTR:	688
WELL % REC:	28.9%

**Cumulative Cost:** \$96,113.00

**Days Since Start:** 11

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-H62-3513

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Ute Indian Tribe

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1.a. TYPE OF WELL: Oil Well ☒ Gas Well ☐ Dry ☐ Other ☐

7. UNIT AGREEMENT NAME  
14-20-H62-4650

b. TYPE OF COMPLETION:

New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Reserv. ☐ Other ☐

8. FARM OR LEASE NAME

2. NAME OF OPERATOR

Petroglyph Operating Company, Inc.

9. WELL NO.

Ute Tribal 18-11

3. ADDRESS OF OPERATOR

P.O. Box 607, Roosevelt, UT 84066 (801) 722-2531

10. FIELD AND POOL, OR WILDCAT

Antelope Creek

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 2235' FSL 1920' FWL

11. SEC., T., R., M., OR BLOCK AND  
SURVEY OR AREA  
NESW Sec. 18-T5S-R3W

At top prod. interval reported below

At total depth 6009' RTD

14. PERMIT NO.  
43-013-31782

DATE ISSUED  
2/4/97

12. County or Parish  
Duchesne

13. State  
Utah

15. DATE SPUDDED 4/14/97

16. DATE T.D. REACHED 4/21/97

17. DATE COMPLETED (Ready to prod.)  
7/21/97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
6194' GL

19. ELEV. CASINGHEAD  
6194'

20. TOTAL DEPTH, MD & TVD  
6009' RTD

21. PLUG BACK T.D., MD & TVD  
5960'

22. IF MULTIPLE COMPL., HOW MANY\*  
3

23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)\*

25. WAS DIRECTIONAL SURVEY MADE

Green River

26. TYPE ELECTRIC AND OTHER LOGS RUN

CNL, AIT

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	410'	12-1/4"	225 sxs Type 5	
5-1/2"	15-5#	6003'	7-7/8"	95 sxs Highfill	
				320 sxs Thixset	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5930'	

31. PERFORATION RECORD (Interval, size and number)

C9.2 4882-86' (16 shots)

C8.2 4832-36' (16 shots)

C6 4744-48' (16 shots)

C6 4736-38' (8 shots)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

4882-86' 6000 gal Boragel, 31000# 20/40 prop

4832-36' 7624 gal Boragel, 42800# 20/40 prop

4744-48' & 4736-38' 250 gal HCl & 7609 gal Boragel, 40800# 20/40 sand

33. PRODUCTION

DATE FIRST PRODUCTION

8/2/97

PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)

2 1/2" x 1-3/4" x 16' 40 ring RHAC pump

WELL STATUS (Producing or shut-in)

producing

DATE OF TEST

8/13/97

HOURS TESTED

24

CHOKE SIZE

PROD'N FOR

TEST PERIOD

OIL - BBL.

50

GAS - MCF.

0

WATER - BBL.

51

GAS-OIL RATIO

FLOW. TUBING PRESS.

CASING PRESSURE

900

CALCULATED

24 HR. RATE

OIL - BBL.

GAS - MCF.

WATER - BBL.

OIL GRAVITY - API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

Dave Schreiner

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Signed

Neena Bell

Title

Operations Coordinator

Date

11-25-97

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONFIDENTIAL



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
B Marker X Marker Y Marker Douglas Creek B Limestone Castle Peak Basal Carbonate	3910 4400 4434 4540 4928 5494 5902		CONFIDENTIAL			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

5. Lease Designation and Serial No.

**14-20-H62-3513**

6. If Indian, Allottee or Tribe Name

**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation

**14-20-H62-4650**

8. Well Name and No.

**UteTribal 18-11**

9. API Well No.

**43-013-31782**

10. Field and Pool, or Exploratory Area

**Antelope Creek**

11. County or Parish, State

**Duchesne County, UT**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.

**P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500**

4. Location of Well (Footage, Sec., T., R., or Survey Description)

**2235' FSL & 1920' FWL  
NESW Sec. 18-T5S-R3W**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ CONVERT TO INJECTOR  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal 18-11 from a producing well to an injection well under the EPA Area Permit # UT2736-00000 within the Antelope Creek Waterflood Project Area in Duchesne County, Utah.

14. I hereby certify that the foregoing is true and correct

Signed Marko Smith Title Operations Coordinator

Date 2-18-00

(This space for Federal or State official use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of Approval, if any:

UTE TRIBAL # 18-11  
Wellbore Diagram  
AFTER CONVERSION

WELL HISTORY:

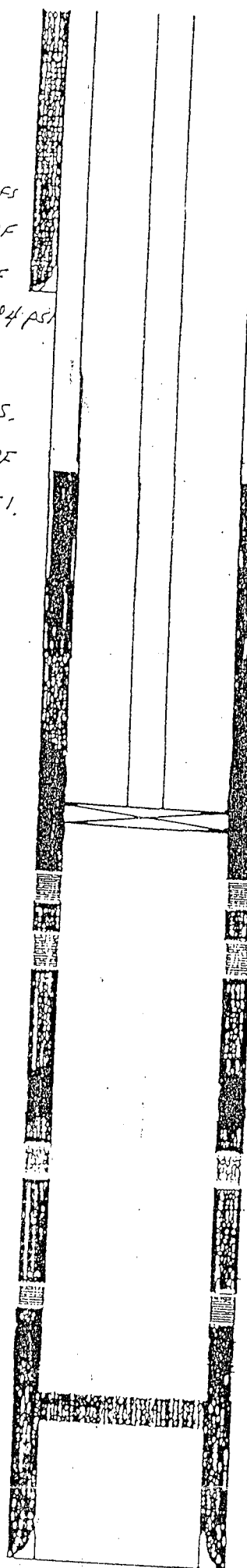
SPUD WELL: 04-14-97

FIRST PROD: 08-02-97

07-17-97 C-6 ZONES, PERFS  
4736 TO 4738, 4SPF  
4744 TO 4748, 4SPF  
FRAC'ED, ISIP 2084 PSI

07-17-97 C-8.1 ZONE, PERFS.  
4832 TO 4836, 4SPF  
FRAC'ED, ISIP 3112 PSI.

07-16-97 C-9.2 ZONE, PERFS.  
4882 TO 4886, 4SPF  
FRAC'ED, ISIP 2209 PSI.



GL: 6194

KB: 6204

Surface Hole Size 13 1/4"

8 5/8" 24# Surface Csg @  
410' KB Cmt'd w/ 225 SXS

Hole Size: 7 7/8" Bit.

Cement Tops:  
1st Stage: 2405'

5 1/2" 15.5# CSG @ 6003  
CMT'd W/ 415 SXS. 1st Stage  
CMT'd W/ SXS. 2nd Stage

145 JOINTS OF  
2 3/8" 4.7# TUBING

SET ON PACKER AT 4640'

PBTD @ 5937'

TD @ 6009' KB

(Not to Scale)

Petroglyph Operating Co., Inc.

Ute Tribal # 18-11

35' FSL AND 1920' FWL

SW SEC. 18-55-3W

Antelope Creek Field

Duchesne Co, Utah

5# 14-20-H62-3513

43-013-31782

OPERATOR Petroglyph Operating  
ADDRESS P.O. Box 607  
Roosevelt, UT 84066

OPERATOR ACCT. NO. N 3800

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	09387	→	43-013-31782	Ute Tribal 18-11	NESW	18	55	3W	Duchesne	4-4-97	
WELL 1 COMMENTS: Entity added 12-15-97. See											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Deanna K. Bell  
Signature  
Operations Coordinator  
Title  
12-11-97  
Date  
Phone No. 801, 722-2531

# WORKOVER REPORT

3/9/2000

Petroglyph Operating Co., Inc.

Operator:	Petroglyph Operating Company, Inc.	Elevation:	KB 6204
Lease:	Ute Tribal 18-11		GL 6194
API #:	43-013-31782	Property:	50141
Location:	18 - 5 S - 3 W	AFE/EPE Number:	41306
County, St.:	Duchesne UT	Event Type:	convert to injector

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

3/2/2000	\$14,500.00	
----------	-------------	--

7 AM open well & resume PU 2 3/8" tbg & RIH w/ Hydro I pkr. RD floor & ND BOP. Try spot pkr fluid. Took 70 bbls to catch fluid. Roll hole & re-spot packer fluid dwn csg. Drop standing valve & set 5 1/2" Hydro I packer @ 1900 psi. ND well head & test csg to 1500 psi, 20 min. Leave psi on csg. RU & retrieve standing valve. RD unit & police location. Pumped 2 bbls T-229 w/ 20 bbls treated wtr. Followed w/ 90 bbls treated wtr. Followed w/ 2 bbls zysol mixed w/ 40 bbls condensate. Secure well. Average rate 2-2 1/2 BPM @ 1300-1600 psi. Hydroset I packer set w/ 10,000# compression.

## TUBING DETAIL

	LENGTH	DEPTH
KB	10.00	10.00
142 jts 2 3/8" tbg	4556.98	4566.98
5 1/2" Hydro I packer	7.65	4574.63
2 3/8" sub	4.12	4578.75
2 3/8" F nipple	.87	4579.62
EOT		4579.62

3/1/2000	\$4,958.00	
----------	------------	--

Before crew arrived, pumped 20 bbls treated wtr @ 260 deg, 11 bbls condensate, & 30 bbls treated wtr @ 260 deg dwn tbg. At 7 AM RU & swab well. C6, C8.2, C9.2 IFL @ 300'. 9 run set RTTS @ 4667' & resume swab. 17 total runs FFL @ 3900', 87 total bbls recovered today. PH 5-1-4+5. Release RTTS & RIH retrieve BVBP. POOH LD 2 7/8" prod tbg & tools. Change over to 2 3/8". PU 5 1/2 Hydro I, 4' 2 3/8" sub & 1.85 F Nipple. RIH w/ Hydro I & 2 3/8". PU 5 1/2" Hydro I, 4' 2 3/8" sub, & 1.85" F nipple. RIH w/ Hydro I & 65 jts 2 3/8" tbg. Secure well & drain up @ 5:30 PM. LD 156 jts 2 7/8" tbg -- 4966.69'.

RECEIVED MAR 28 2000

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 3 1 8 100  
Test conducted by: CHAD STEVENSON  
Others present: \_\_\_\_\_

Well Name: <u>LUTE TRIBAL 18-11</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>18-11</u>	Sec: <u>18</u>	T <u>5</u> N/S R <u>3</u> E/W County: <u>DUCHESSNE</u> State: <u>UT</u>
Operator: <u>PETROGLYPH OPERATING</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☒ Yes ☐ No

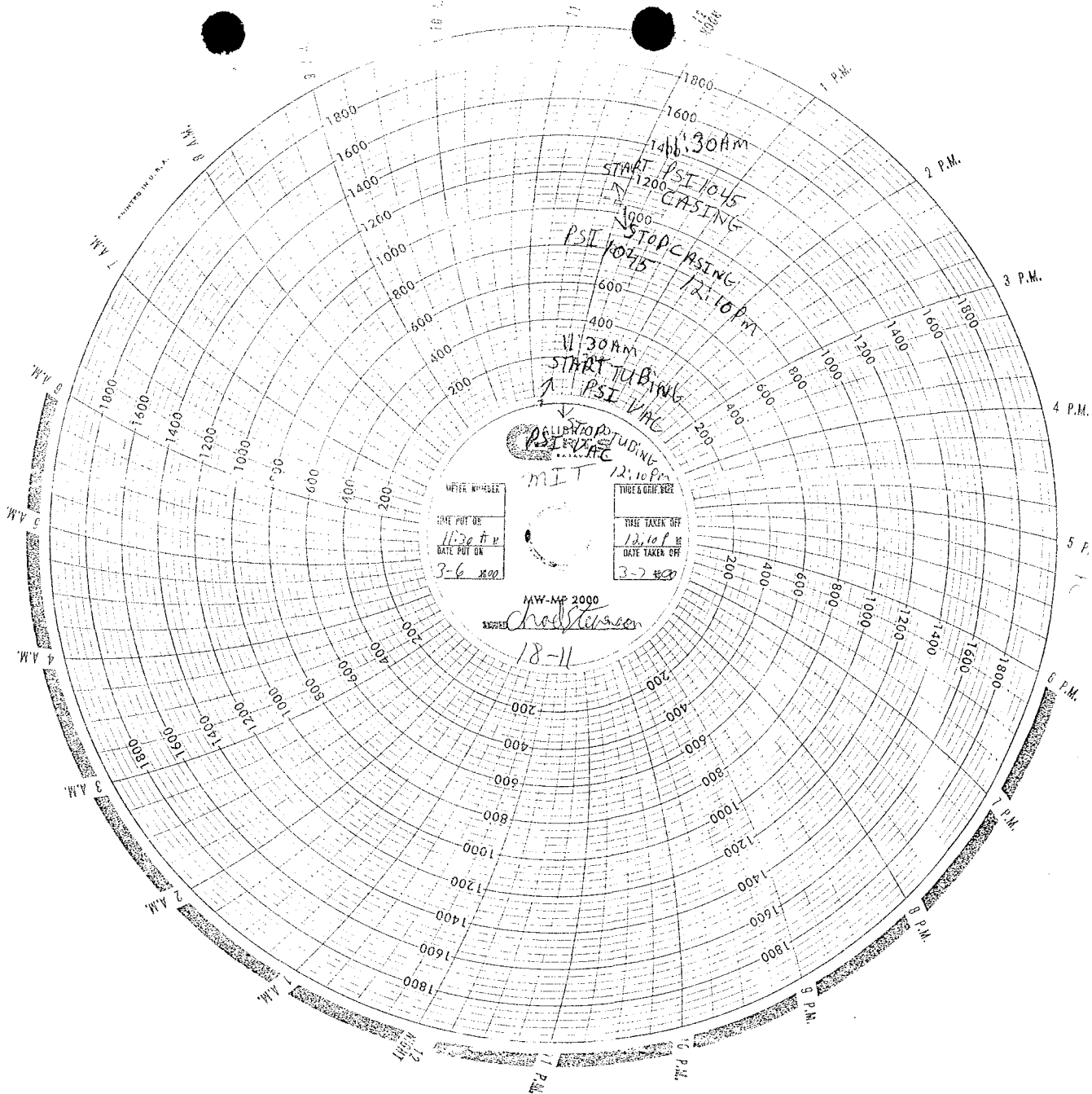
Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☒ No If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 1045 / VAC. psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING		PRESSURE		
Initial Pressure		<u>VAC</u> psig	psig	psig
End of test pressure		<u>VAC</u> psig	psig	psig
CASING / TUBING		ANNULUS PRESSURE		
0 minutes		<u>1045</u> psig	psig	psig
5 minutes		<u>1045</u> psig	psig	psig
10 minutes		<u>1045</u> psig	psig	psig
15 minutes		<u>1045</u> psig	psig	psig
20 minutes		<u>1045</u> psig	psig	psig
25 minutes		<u>1045</u> psig	psig	psig
30 minutes		<u>1045</u> psig	psig	psig
<u>24 HOURS</u> minutes		<u>1045</u> psig	psig	psig
minutes		psig	psig	psig
RESULT		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 500  
DENVER, CO 80202-2466

MAR 17 2000

Ref: 8P-W-GW

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mrs. Marlo Smith, Operations Coordinator  
Petroglyph Operating Company, Inc.  
4116 West 3000 South  
P.O. Box 607  
Roosevelt, UT 84066

Re: AUTHORIZATION TO COMMENCE INJECTION  
Ute Tribal #18-11 (UT04520)  
Antelope Creek Field  
EPA AREA PERMIT UT2736-00000  
Duchesne County, Utah

Dear Mrs. Smith:

Thank you for submitting information pertaining to Ute Tribal #18-11 to the Environmental Protection Agency (EPA) Region VIII Groundwater Program. Requirements of UIC Area Permit UT2736-00000 Part II Sections (C)(2) "Prior To Commencing Injection" required submittal of the following information:

1. Well Rework Record (EPA Form 7520-12) with after conversion well schematic,
2. Successfully run Mechanical Integrity Test (MIT) with pressure chart,
3. Injection zone fluid pore pressure survey.

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C)(2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #18-11 under the conditions of UIC Area Permit UT2736-00000. The Director has determined that the maximum surface injection pressure for the Ute Tribal #18-11 shall not exceed 1300 psig.



Printed on Recycled Paper



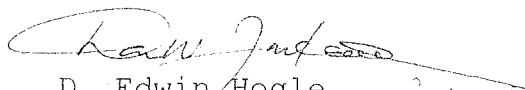
Please be reminded that it is the responsibility of the permittee to be aware of, and to comply with, all conditions of the permit. Effective upon receipt of this letter, EPA administration of this well is transferred to Mr. Bahram Jafari, Compliance Officer in the Office of Enforcement, Compliance, and Environmental Justice Technical Enforcement Program, who is your point of contact for routine compliance matters and reports.

Please send all reporting forms and other required correspondence to Mr. Jafari at the address listed below, referencing EPA WELL ID: UT04520 on all reports and correspondence.

Mr. Bahram Jafari,  
Technical Enforcement Program, Mail Code 8ENF-T  
U.S. Environmental Protection Agency  
999 18th Street, Suite 500  
Denver, Colorado, USA, 80202-2466

If you have any questions concerning this authorization or the permit, please contact Mr. Dan Jackson of my staff at 303.312.6155 or Mr. Jafari at 303.312.6459.

Sincerely,

  
D. Edwin Hogle *for DEH*  
Director  
Ground Water Program

cc: Mr. Ronald McCook, Chairman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director  
Ute Indian Tribe

Mr. Norman Cambridge  
BIA - Uintah & Ouray Agency

Mr. Gil Hunt  
State of Utah Natural Resources  
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka  
BLM - Vernal District Office

WASHINGTON, DC 20460

EPA

## WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

Petroglyph Operating Company, Inc.  
P.O. Box 1839  
Hutchinson, KS 67504-1839

NAME AND ADDRESS OF CONTRACTOR

Ute Indian Tribe

LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT -- 640 ACRES

STATE

UT

COUNTY

Duchesne

PERMIT NUMBER

UT2736-04520

SURFACE LOCATION DESCRIPTION

NE 1/4 OF SW 1/4 SECTION 18 TOWNSHIP 5S RANGE 3W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 2235 ft. from South Line of quarter section  
and 1920 ft. from West Line of quarter section

WELL ACTIVITY

☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage

Lease Name

Ute Tribal

Total Depth Before Rework

6009'

Total Depth After Rework

6009'

Date Rework Commenced

2/26/00

Date Rework Completed

3/2/00

TYPE OF PERMIT

☐ Individual☒ Area

Number of Wells

1

Well Number

Ute Tribal #18-11

## WELL CASING RECORD - BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
8-5/8" 24#	410'	225	5	4736-38	4744-48	Acid 250 gal 15%HCL & frac w/7609 gal & 40800# 20/40 prop
5-1/2" 15.5#	6024'	95/320	Highfill/Thixotro	4832	4836	frac w/ 7624 gals & 42800# 20/40 prop
				4882	4886	frac w/ 6000 gals, 31000# 20/40 prop

## WELL CASING RECORD - AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	
Same as above						Acidized each zone w/ 750 gals 71 1/2% HCL w/ additives

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

Complete as injection w/ 2-3/8" @ 4580'. Set pkr, test annulus. Performed M.I.T. test.

CNL, AIT, CBL

## CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

Marlo Smith  
Operations Coordinator

SIGNATURE



DATE SIGNED

3/14/00

# WORKOVER REPORT

3/9/2000

Petroglyph Operating Co., Inc.

Operator:	Petroglyph Operating Company, Inc.	Elevation:	KB 6204
Well:	Ute Tribal 18-11		GL 6194
County, St.:	Duchesne UT		

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

SI PRESSURE

ISIP 1480

5 min: 1010

10 min: 729

15 min: 519

2/28/2000 \$3,487.00

before crew arrived flushed tbg w/ 35 bbls treated wtr. At 7 AM open well & resume POOH LD rods & re-flush w/ 8 bbls treated wtr. Resume POOH LD rods, 81 slick 7/8", 108 slick 3/4", 4 guided 3/4", & pump. Chang over to tbg. ND well head & prod lines, anchor not set. RIH to check rat hole to 5057' +/- POOH 2 7/8" tbg. Strap out. LD sheared anchor missing 4 drag springs. LD gas anchor & bttm 2 jts 2 7/8" tbg. RIH w/ 5 1/2" scraper & mill to 4966' +/- POOH w/ scraper @ 1200' out of hole. Had to roll hole due to oil kicks. Resume POOH w/scraper. PU 5 1/2" RTTS & BV. RIH set BV @ 4972' +/- Load tbg & test tools to 3000 psi. Release RTTS. POOH w/ RTTS above perms & secure well. Drain up pump & lines. No sign of scale on tbg or gas anchor. Rods & boxes looked good but having trouble w/ BV.

2/26/2000 \$1,083.00

2 PM MIRU & remove horse head. Work rods, waxed up. Pump 30 bbls treated wtr dwn csg @ 260 deg. Let tbg bleed off. Work rods & unseat pump. Flush tbg w/ 30 bbls treated wtr & POOH. LD 7/8" rods. Secure well @ 5:30 PM.

Cumulative Cost: \$39,386.00

Days Since Start: 6

# WORKOVER REPORT

Petroglyph Operating Co., Inc.

3/9/2000

Operator:	Petroglyph Operating Company, Inc.	Elevation:	KB 6204
Well:	Ute Tribal 18-11		GL 6194
County, St.:	Duchesne UT		

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

2/29/2000	\$15,358.00	
-----------	-------------	--

7 AM open well & RIH w/ tbg from top of perms. Break dwn C9.2, C8.2, & C6. C9.2 communicated to C8.2. See detail. Set BV @ 4972' & RTTS @ 4667'. RU & swab, IFL @ surface & FL @ 1300'. 5 runs tbg waxed up could not get down. Total swabbed 25 bbls. Release RTTS & pump 25 bbls treated wtr down tbg @ 260 deg. Reset pkr @ 4667' Resume swab IFL @ surface & FFL @ 1800'. Made 2 runs to 3000' w/ 1/2 sand cup 300' recovered each run. On #3 to 3000' stopped @ 2300'. Could not get down. Total swabbed after hot oil job 22 bbls out of 35 bbls secure well @ 6 PM. Accumulated swabbed 47 bbls.

NOTE: had to circ misc. off of BV @ C9.2 4972' approximately 3' of fill.

PERFORATIONS	ZONE	BV	RTTS
4736-38'	C6	4802	4667
4744-48'	C6	4802	4667
4832-36'	C8.2	4879	4799
4882-86'	C9.2	4972	4871

STIMULATION  
TREATMENT C9.2 4882-86' @ 16 shots

Fluid volume: 19, 18  
Fluid type: acid/chem, treated wtr

## TREATING PRESSURE

Max: 2525 psi @ 2.6 BPM  
Average: 2300 psi @ 2.6 BPM

## SI PRESSURE

ISIP: C9.2 broke to C8.2  
STIMULATION  
TREATMENT C8.2 4832-36' w/ 16 shots & C9.2

Fluid volume: 19, 27  
Fluid type: acid/chemical, treated wtr

## TREATING PRESSURE

Max: 2525 psi @ 2.6 BPM  
Average: 1800 psi @ 2.5 BPM

## SI PRESSURE

ISIP 1914  
5 min: 1452  
10 min: 1100  
15 min: 841

STIMULATION  
TREATMENT C6 4736-38' w/ 8 shots & 4744-48' w/ 16 shots

Fluid volume: 29, 28  
Fluid type: acid/chemical, treated wtr

## TREATING PRESSURE

Max: 1046 psi @ 2.5 BPM  
Average: 1400 psi @ 2.5 BPM

RECEIVED MAR 9 2000

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.  
**P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500**

4. Location of Well (Footage, Sec., T., R., or Survey Description)  
**2235' FSL & 1920' FWL  
NESW Sec. 18-T5S-R3W**

5. Lease Designation and Serial No.  
**14-20-H62-3513**

6. If Indian, Allottee or Tribe Name  
**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation  
**14-20-H62-4650**

8. Well Name and No.  
**UteTribal 18-11**

9. API Well No.  
**43-013-31782**

10. Field and Pool, or Exploratory Area  
**Antelope Creek**

11. County or Parish, State  
**Duchesne County, UT**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Commence injection

☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Further to BLM & EPA approval (Permit #2736-04520), enclosed are copies of the MIT and job summary. Injection commenced on 3/18/2000.

14. I hereby certify that the foregoing is true and correct

Signed

Title **Operations Coordinator**

Date

(This space for Federal or State official use)

Approved by

Title

Date

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side

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DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
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**2235' FSL & 1920' FWL  
NESW Sec. 18-T5S-R3W**

**RECEIVED**

**MAY - 5 2000**

**BLM VERNAL, UTAH**

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**14-20-H62-3513**

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**Ute Indian Tribe**

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**UteTribal 18-11**

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**43-013-31782**

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11. County or Parish, State  
**Duchesne County, UT**

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- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
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☐ New Construction  
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14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title **Operations Coordinator**

Date **5/4/00**

(This space for Federal or State official use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_

**NOTED**

Date **MAY 10 2000**

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side

OPERATOR

**RECEIVED MAY 15 2000**

## WORKOVER REPORT

5/22/00

Petroglyph Operating Co., Inc.

Type: convert to injector

---

<b>Operator:</b> Petroglyph Operating Company, Inc.	<b>Elevation:</b> KB 6204
<b>Lease:</b> Ute Tribal 18-11	GL 6194
<b>API #:</b> 43-013-31782	<b>Property:</b> 11770
<b>Location:</b> 18 - 5 S - 3 W	<b>AFE/EPE Number:</b> 41306
<b>County, St.:</b> Duchesne UT	

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Activity Date	Daily Cost	Activity Description
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2/26/00	\$1,083.00	
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2 PM MIRU & remove horse head. Work rods, waxed up. Pump 30 bbls treated wtr dwn csg @ 260 deg. Let tbg bleed off. Work rods & unseat pump. Flush tbg w/ 30 bbls treated wtr & POOH. LD 7/8" rods. Secure well @ 5:30 PM.

2/28/00	\$3,487.00	
---------	------------	--

before crew arrived flushed tbg w/ 35 bbls treated wtr. At 7 AM open well & resume POOH LD rods & re-flush w/ 8 bbls treated wtr. Resume POOH LD rods, 81 slick 7/8", 108 slick 3/4", 4 guided 3/4", & pump. Chang over to tbg. ND well head & prod lines, anchor not set. RIH to check rat hole to 5057' +/- POOH 2 7/8" tbg. Strap out. LD sheared anchor missing 4 drag springs. LD gas anchor & bttm 2 jts 2 7/8" tbg. RIH w/ 5 1/2" scraper & mill to 4966' +/- POOH w/ scraper @ 1200' out of hole. Had to roll hole due to oil kicks. Resume POOH w/scraper. PU 5 1/2" RTTS & BV. RIH set BV @ 4972' +/- Load tbg & test tools to 3000 psi. Release RTTS. POOH w/ RTTS above perms & secure well. Drain up pump & lines. No sign of scale on tbg or gas anchor. Rods & boxes looked good but having trouble w/ BV.

# WORKOVER REPORT

5/22/00

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6204

Well: Ute Tribal 18-11

GL 6194

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

2/29/00 \$15,358.00

7 AM open well & RIH w/ tbg from top of perms. Break dwn C9.2, C8.2, & C6. C9.2 communicated to C8.2. See detail. Set BV @ 4972' & RTTS @ 4667'. RU & swab, IFL @ surface & FL @ 1300'. 5 runs tbg waxed up could not get down. Total swabbed 25 bbls. Release RTTS & pump 35 bbls treated wtr down tbg @ 260 deg. Reset pkr @ 4667'. Resume swab IFL @ surface & FFL @ 1800'. Made 2 runs to 3000' w/ 1/2 sand cup 300' recovered each run. On #3 to 3000' stopped @ 2300'. Could not get down. Total swabbed after hot oil job 22 bbls out of 35 bbls secure well @ 6 PM. Accumulated swabbed 47 bbls.

NOTE: had to circ misc. off of BV @ C9.2 4972' approximately 3' of fill.

PERFORATIONS	ZONE	BV	RTTS
4736-38'	C6	4802	4667
4744-48'	C6	4802	4667
4832-36'	C8.2	4879	4799
4882-86'	C9.2	4972	4871

STIMULATION TREATMENT C9.2 4882-86' @ 16 shots

Fluid volume: 19, 18

Fluid type: acid/chem, treated wtr

### TREATING PRESSURE

Max: 2525 psi @ 2.6 BPM

Average: 2300 psi @ 2.6 BPM

### SI PRESSURE

ISIP: C9.2 broke to C8.2

STIMULATION TREATMENT C8.2 4832-36' w/ 16 shots & C9.2

Fluid volume: 19, 27

Fluid type: acid/chemical, treated wtr

### TREATING PRESSURE

Max: 2525 psi @ 2.6 BPM

Average: 1800 psi @ 2.5 BPM

### SI PRESSURE

ISIP 1914

5 min: 1452

10 min: 1100

15 min: 841

STIMULATION TREATMENT C6 4736-38' w/ 8 shots & 4744-48' w/ 16 shots

Fluid volume: 29, 28

Fluid type: acid/chemical, treated wtr

### TREATING PRESSURE

Max: 1646 psi @ 2.5 BPM

Average: 1400 psi @ 2.5 BPM

### SI PRESSURE

ISIP 1480



# WORKOVER REPORT

5/22/00

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6204

Well: Ute Tribal 18-11

GL 6194

County, St.: Duchesne UT

## Activity Date Daily Cost Activity Description

5 min: 1010  
10 min: 729  
15 min: 519

3/1/00 \$4,958.00

Before crew arrived, pumped 20 bbls treated wtr @ 260 deg, 11 bbls condensate, & 30 bbls treated wtr @ 260 deg dwn tbq. At 7 AM RU & swab well. C6, C8.2, C9.2 IFL @ 300'. 9 run set RTTS @ 4667' & resume swab. 17 total runs FFL @ 3900', 87 total bbls recovered today. PH 5-1-4+5. Release RTTS & RIH retrieve BVBP. POOH LD 2 7/8" prod tbq & tools. Change over to 2 3/8". PU 5 1/2 Hydro I, 4' 2 3/8" sub & 1.85 F Nipple. RIH w/ Hydro I & 2 3/8". PU 5 1/2" Hydro I, 4' 2 3/8" sub, & 1.85' F nipple. RIH w/ Hydro I & 65 jts 2 3/8" tbq. Secure well & drain up @ 5:30 PM. LD 156 jts 2 7/8" tbq = 4966.69'.

3/2/00 \$14,500.00

7 AM open well & resume PU 2 3/8" tbq & RIH w/ Hydro I pkr. RD floor & ND BOP. Try spot pkr fluid. Took 70 bbls to catch fluid. Roll hole & re-spot packer fluid dwn csg. Drop standing valve & set 5 1/2" Hydro I packer @ 1900 psi. ND well head & test csg to 1500 psi, 20 min. Leave psi on csg. RU & retrieve standing valve. RD unit & police location. Pumped 2 bbls T-229 w/ 20 bbls treated wtr. Followed w/ 90 bbls treated wtr. Followed w/ 2 bbls zysol mixed w/ 40 bbls condensate. Secure well. Average rate 2-2 1/2 BPM @ 1300-1600 psi. Hydroset I packer set w/ 10,000# compression.

### TUBING DETAIL

	LENGTH	DEPTH
KB	10.00	10.00
142 jts 2 3/8" tbq	4556.98	4566.98
5 1/2" Hydro I packer	7.65	4574.63
2 3/8" sub	4.12	4578.75
2 3/8" F nipple	.87	4579.62
EOT		4579.62

Cumulative Cost: \$39,386.00

Days Since Start: 6